Index

PAGE

Address of the President (Professor K.A.Pounds) on the Presentation of the Chapman Medal to Professor S.W.H.Cowley on Friday 1991 March 8 215
Address of the President (Professor K.A.Pounds) on the Presentation of the Eddington Medal to Professor I.Iben Jr on Friday 1991 May 10 353
Address of the President (Professor K.A.Pounds) on the Presentation of the Gold Medal to Professor G.J.Wasserburg on Friday 1991 May 10 351
Autumn MIST Meeting, 1990, *M.J.Laird* 423
'A World in the Moon': John Wilkins and his Lunar Voyage of 1640, *A.Chapman* 121

Barraclough, D.R., see *Malin, S.R.C.*
Baxter, J.H., The National Curriculum: A Challenge for Astronomers 147
Beech, M., The Stationary Radiant Debate Revisited 245
Bolt, B.A., The Precision of Density Estimation Deep in the Earth, Harold Jeffreys Lecture 367

Chang, G., see *Tang, T.B.*
Chapman, A., 'A World in the Moon': John Wilkins and his Lunar Voyage of 1640 121
Chapman-Rietschi, P.A.L., Pre-telescopic Astronomy: Invisible 'Planets' Rahu and Ketu 53
Classification of Extraterrestrial Civilizations, *T.B.Tang and G.Chang* 189
Comments on 'The Use of Seismometers to Detect the Impact of Meterorites' by R.Matthews, *R.Hutchison* 49
Comments on 'The National Curriculum: A Challenge for Astronomers' by J.H.Baxter, *RAS Education Committee* 159
Convection in the Earth's Core and Mantle. Harold Jeffreys Lecture 1990, *D.Gubbins* 69
Crabtree's Venus-Transit Measurement, *N.Kollerstrom* 51
Cullen, C., Halley's Comet and the 'Ghost' Event of 10 BC 113

Dedicated Wide-Field Telescopes: a Response to Professor Fellgett and Dr Willstrop, *N.Zacharias* 45

Exploding Stars and the Expanding Universe, *R.P.Kirshner* 233

Gubbins, D., Convection in the Earth's Core and Mantle. Harold Jeffreys Lecture 1990 69

Halley's Comet and the 'Ghost' Event of 10 BC, *C.Cullen* 113
Historical Accretionary Events from 800 BC to AD 170: Evidence for Planetary Rings Around the Earth?, *K.L.Rasmussen* 25
Hughes, D.W., The Largest Asteroids Ever 133
Humboldt and the Earth's Magnetic Field, *S.R.C.Malin and D.R.Barraclough* 279
Humphreys, C.J., The Star of Bethlehem – a Comet in 5 BC – and the Date of the Birth of Christ 389
Hutchison, R., Comments on 'The Use of Seismometers to Detect the Impact of Meteorites' by R.Matthews 49

Icke, V. and van de Weygaert, R., The Galaxy Distribution as a Voronoi Foam 85
Ionospheric Science and Geomagnetism, *H.Rishbeth* 409

Keedy, D.R., Sunspot Visibility: A Response to Bradley E.Schaefer 481
Kirshner, R.P., Exploding Stars and the Expanding Universe 233
Kollerstrom, N., Crabtree's Venus-Transit Measurement 51

Index

PAGE

Address of the President (Professor K.A.Pounds) on the Presentation of the Chapman Medal to Professor S.W.H.Cowley on Friday 1991 March 8 215
Address of the President (Professor K.A.Pounds) on the Presentation of the Eddington Medal to Professor I.Iben Jr on Friday 1991 May 10 353
Address of the President (Professor K.A.Pounds) on the Presentation of the Gold Medal to Professor G.J.Wasserburg on Friday 1991 May 10 351
Autumn MIST Meeting, 1990, *M.J.Laird* 423
'A World in the Moon': John Wilkins and his Lunar Voyage of 1640, *A.Chapman* 121

Barraclough, D.R., see *Malin, S.R.C.*
Baxter, J.H., The National Curriculum: A Challenge for Astronomers 147
Beech, M., The Stationary Radiant Debate Revisited 245
Bolt, B.A., The Precision of Density Estimation Deep in the Earth, Harold Jeffreys Lecture 367

Chang, G., see *Tang, T.B.*
Chapman, A., 'A World in the Moon': John Wilkins and his Lunar Voyage of 1640 121
Chapman-Rietschi, P.A.L., Pre-telescopic Astronomy: Invisible 'Planets' Rahu and Ketu 53
Classification of Extraterrestrial Civilizations, *T.B.Tang and G.Chang* 189
Comments on 'The Use of Seismometers to Detect the Impact of Meterorites' by R.Matthews, *R.Hutchison* 49
Comments on 'The National Curriculum: A Challenge for Astronomers' by J.H.Baxter, *RAS Education Committee* 159
Convection in the Earth's Core and Mantle. Harold Jeffreys Lecture 1990, *D.Gubbins* 69
Crabtree's Venus-Transit Measurement, *N.Kollerstrom* 51
Cullen, C., Halley's Comet and the 'Ghost' Event of 10 BC 113

Dedicated Wide-Field Telescopes: a Response to Professor Fellgett and Dr Willstrop, *N.Zacharias* 45

Exploding Stars and the Expanding Universe, *R.P.Kirshner* 233

Gubbins, D., Convection in the Earth's Core and Mantle. Harold Jeffreys Lecture 1990 69

Halley's Comet and the 'Ghost' Event of 10 BC, *C.Cullen* 113
Historical Accretionary Events from 800 BC to AD 170: Evidence for Planetary Rings Around the Earth?, *K.L.Rasmussen* 25
Hughes, D.W., The Largest Asteroids Ever 133
Humboldt and the Earth's Magnetic Field, *S.R.C.Malin and D.R.Barraclough* 279
Humphreys, C.J., The Star of Bethlehem – a Comet in 5 BC – and the Date of the Birth of Christ 389
Hutchison, R., Comments on 'The Use of Seismometers to Detect the Impact of Meteorites' by R.Matthews 49

Icke, V. and van de Weygaert, R., The Galaxy Distribution as a Voronoi Foam 85
Ionospheric Science and Geomagnetism, *H.Rishbeth* 409

Keedy, D.R., Sunspot Visibility: A Response to Bradley E.Schaefer 481
Kirshner, R.P., Exploding Stars and the Expanding Universe 233
Kollerstrom, N., Crabtree's Venus-Transit Measurement 51

Laird, M.J., Autumn MIST Meeting, 1990 423
Length of the Lunar Crescent, *B.E.Schaefer* 265
Lovell, B., The Genesis of the Northern Hemisphere Observatory 1

Maeder, A., Massive Stars in Galaxies 217
Malin, S.R.C. and Barraclough, D.R., Humboldt and the Earth's Magnetic Field 279
Massive Stars in Galaxies, *A.Maeder* 217
Morelli, J.P., Cowley, S.W.H., Yeoman, T.K. and McCrea, I.W., Radar Studies of the Upper Atmosphere and the Ionosphere 295

Newton's Date for the Crucifixion, *J.P.Pratt* 301

Obituaries
D.H.Sadler 59
A.E.Carter 67
H.P.Palmer 193
J.Tuominen 199
T.G.Cowling 201
E.H.Collinson 207
C.M.Sitterly 209
C.Jackson 211
H.R.Hulme 213
M.V.Penston 314
S.Plakidis 483
P.D.Stern 485
Our Place in the Universe, *M.Todd* 161

Pounds, K.A., X-ray Astronomy in its Thirtieth Year, Presidential Address 355
Pratt, J.P., Newton's Date for the Crucifixion 301
Pre-telescopic Astronomy: Invisible 'Planets' Rahu and Ketu, *P.A.L.Chapman-Rietschi* 53

Radar Studies of the Upper Atmosphere and the Ionosphere, *J.P. Morelli, S.W.H. Cowley, T.K. Yeoman, and I.W. McCrea* 295
Rahu in Early Burma, *D.C.Wright* 57
RAS Education Committee, Comments on 'The National Curriculum: A Challenge for Astronomers' by J.H.Baxter 159
Rasmussen, K.L., Historical Accretionary Events from 800 BC to AD 170: Evidence for Planetary Rings Around the Earth? 25

Reports from Observatories, University Departments and Research Establishments
Anglo-Australian Observatory 169
Lancashire Polytechnic: Department of Physics and Astronomy 471
UMIST: Astrophysics Group 305
University College London: Mullard Space Science Laboratory 459
University of Manchester: Nuffield Radio Astronomy Laboratories 429
University of Oxford: Department of Atmospheric, Oceanic and Planetary Physics 181
University of Sussex: Astronomy Centre 449

Reports of Meetings
1990 October 12 213
1990 November 9 213
1990 December 14 214
1991 January 11 319
1991 February 8 319
1991 March 8 320
1991 April 4 321
Annual General Meeting 1991 May 10 321

Autumn MIST Meeting 1990 423
RAS G/MIST Discussion Meeting 295
Regional RAS Meetings 349
Report of the Council to the 171st AGM 322
Report of the Honorary Auditors for the Year 1990 332

Risbeth, H., Ionospheric Science and Geomagnetism 409

Schaefer, B.E., Length of the Lunar Crescent 265
Schaefer, B.E., Sunspot Visibility 35
Sunspot Visibility, *B.E.Schaefer* 35
Sunspot Visibility: A Response to Bradley E.Schaefer, *D.R.Keedy* 481

Tang, T.B. and Chang, G., Classification of Extraterrestrial Civilizations 189
The Galaxy Distribution as a Voronoi Foam, *V.Icke and R. van de Weygaert* 85
The Genesis of the Northern Hemisphere Observatory, *B.Lovell* 1
The Largest Asteroids Ever, *D.W.Hughes* 133
The National Curriculum: A Challenge for Astronomers, *J.H.Baxter* 147
The Precision of Density Estimation Deep in the Earth, Harold Jeffreys Lecture, *B.A.Bolt* 367
The Society's Accounts 334
The Star of Bethlehem – a Comet in 5 BC – and the Date of the Birth of Christ, *C.J.Humphreys* 389
The Stationary Radiant Debate Revisited, *M.Beech* 245
Thomson, M.J., Three Cases of Identity Errors of NGC Galaxies as Published in Major Astronomical Catalogues 17
Three Cases of Identity Errors of NGC Galaxies as Published in Major Astronomical Catalogues, *M.J.Thomson* 17
Todd, M., Our Place in the Universe 161

Van de Weygert, R., see *Icke, V.*

Wright, D.C., Rahu in Early Burma 57

X-ray Astronomy in its Thirtieth Year, Presidential Address, *K.A.Pounds* 355

Zacharias, N., Dedicated Wide-Field Telescopes: a Response to Professor Fellgett and Dr Willstrop 45